

Science? or B.S.

When should you
spend your money?

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**How reliable is the
source of the claim?**

**Does the source
make similiar claims?**

**Have the claims
been verified by
someone else?**

**Does this fit with the
way the world works?**

**Has anyone tried to
disprove the claim?**

**Where does the
preponderance of
evidence point?**

**Is the claimant
playing by the rules of
science?**

**Is the claimant
providing positive
evidence?**

**Does the new theory
account for as many
phenomena as the
old theory?**

**Are personal beliefs
driving the claim?**

The Red Book

Yeomans[®]

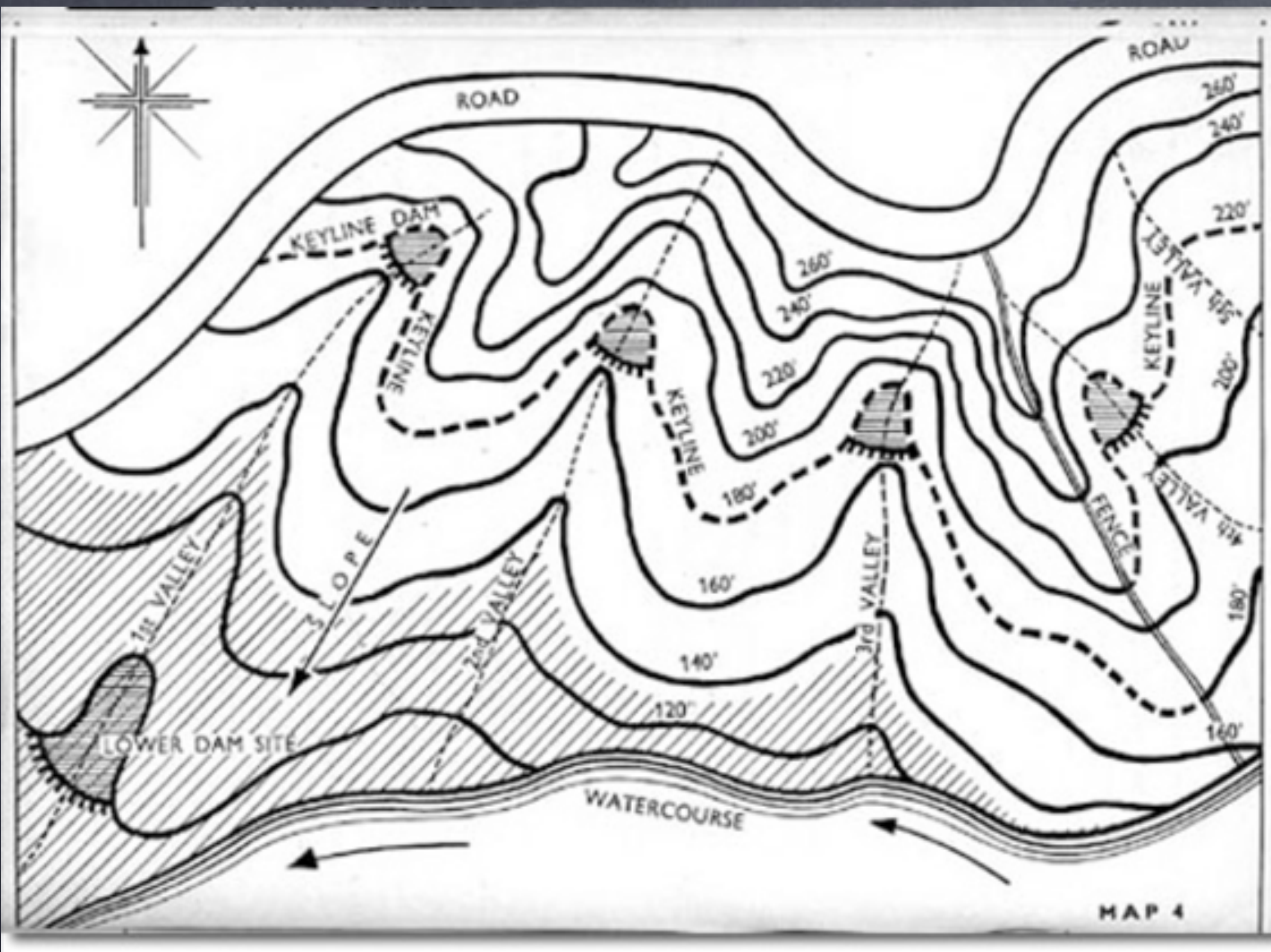
PLOW CO.



L65SJ-10
(L for Three Point Linkage.
65 for Distance Across Beams in Inches.
10 for Approximate Frame Width in Feet.
SJ for Stump Jump Model)

**AS YOUR SOIL GETS RICHER
SO DO YOU**

What is a Yeoman's Plow?



**Does this fit with the
way the world works?**

how Soil is formed

Soil profile

5%
Organic
matter

Soils are
a key element of
every landscape



2015

International
Year of Soils

fao.org/soils-2015

1,000 Years
to build
ONE INCH
of Soil.

Soil processes

Additions
Losses
Translocations

Parent
Material

Topography

Climate

Soil forming factors


Soils around
the world are
very diverse



Food and Agriculture
Organization of the
United Nations



with the support of
United Nations
Development
Programme
of Thailand

A photograph of two puppets sitting in a red upholstered chair. The puppet on the left has white hair and a mustache, wearing a brown suit. The puppet on the right has grey hair and a large nose, wearing a dark blue suit. Both have speech bubbles overlaid on the image. The background consists of red curtains.

8 inches of
topsoil from a
plow they say?

They better
show me the
data, Waldorf!

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someone else?**

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evidence?**

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science?**



**Thousands of
Soil Samples**



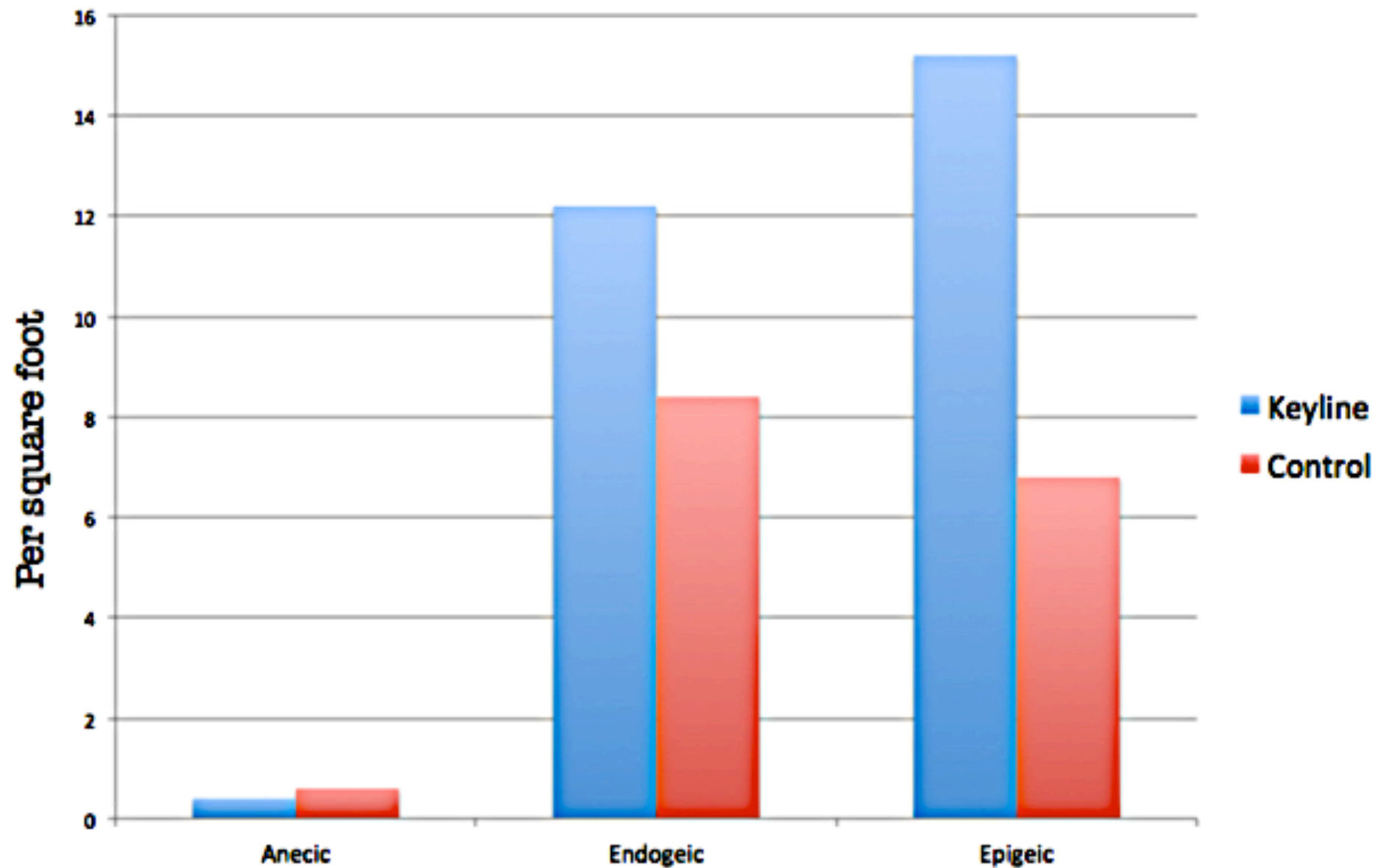
Forage Samples



0

Keyline plowing didn't change soil or forage quality on these four farms over the 2 ½ years we were monitoring pastures.

Keyline: Worm Count



\$280/acre treatment = 522,720 more worms per acre





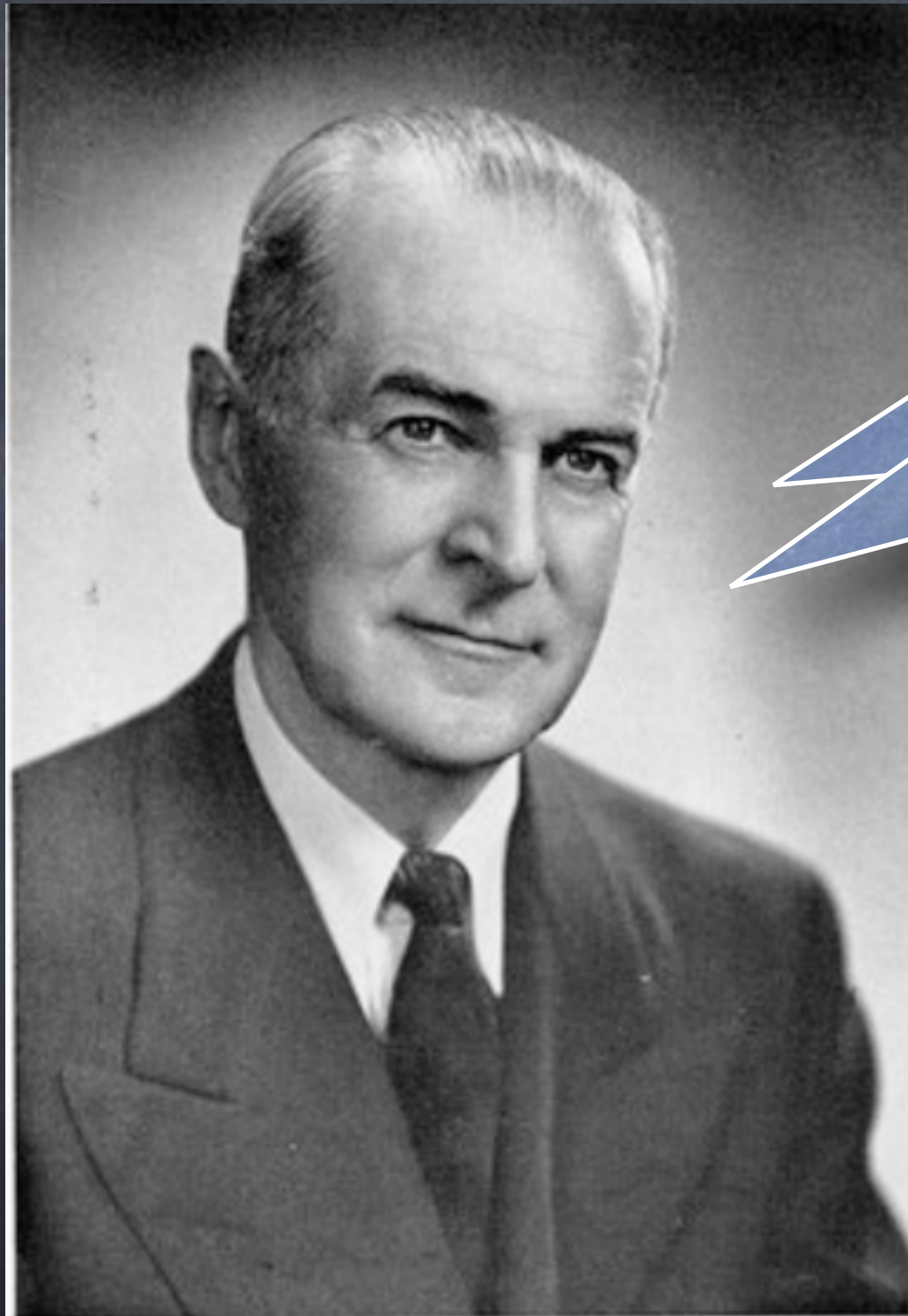
Soil Balancing



**Sometimes
Scientists Get
the Wrong
Answer**

Calcium to
Magnesium
ratio should
be 5:4





Never mind.
Research shows
that as long as
Calcium is adequate
ratios don't make
a difference.



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been verified by
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**Does this fit with the
way the world works?**

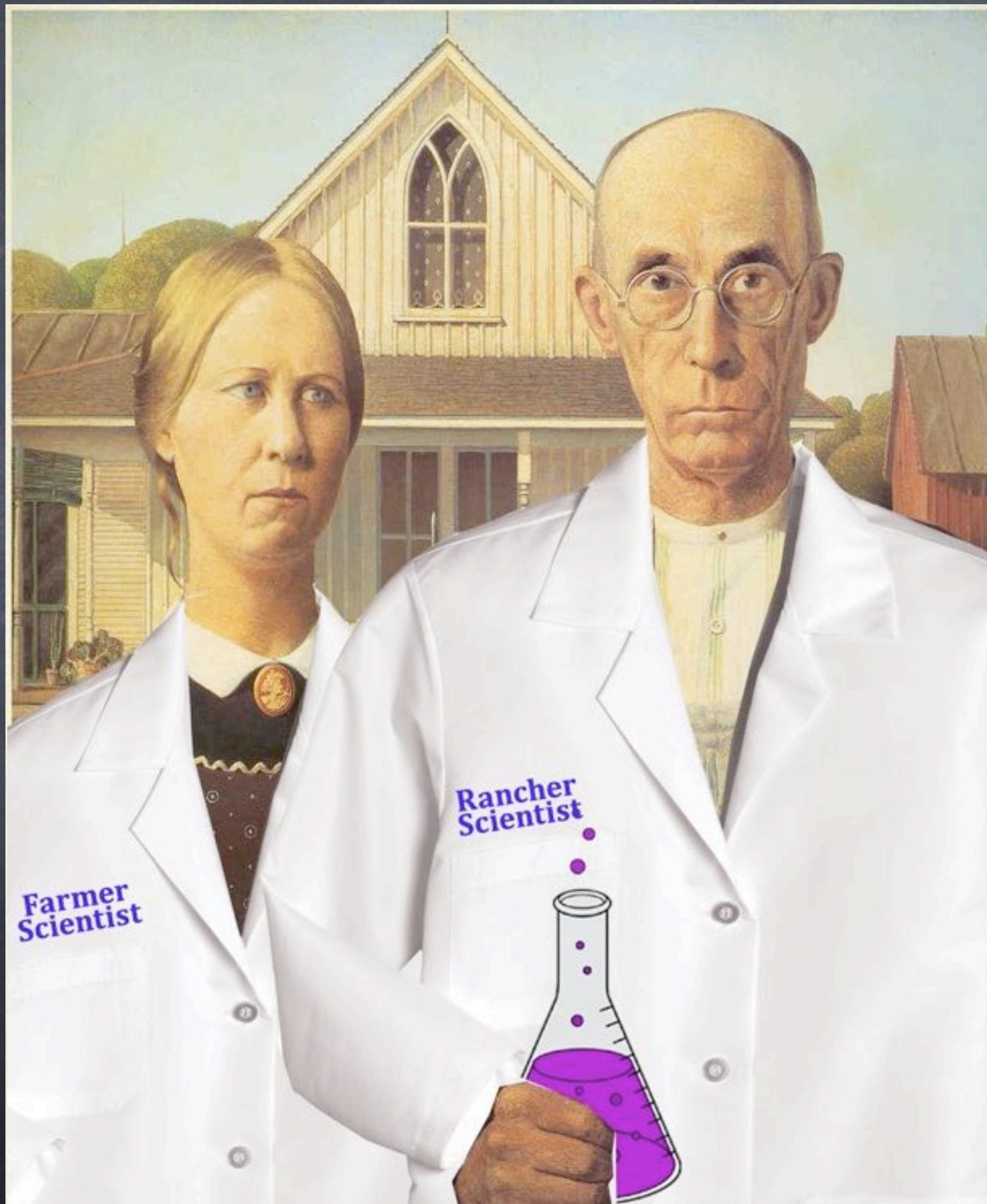
**Where does the
preponderance of
evidence point?**

But I believe
my soil
balancing is
working!



Seems to be
due to other
practices
like compost
& cover crops





Google

Google Search

I'm Feeling Lucky

Google

Scholar



☒ Articles (☒ include patents) ☐ Case law

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Sunday December 13th, 2015

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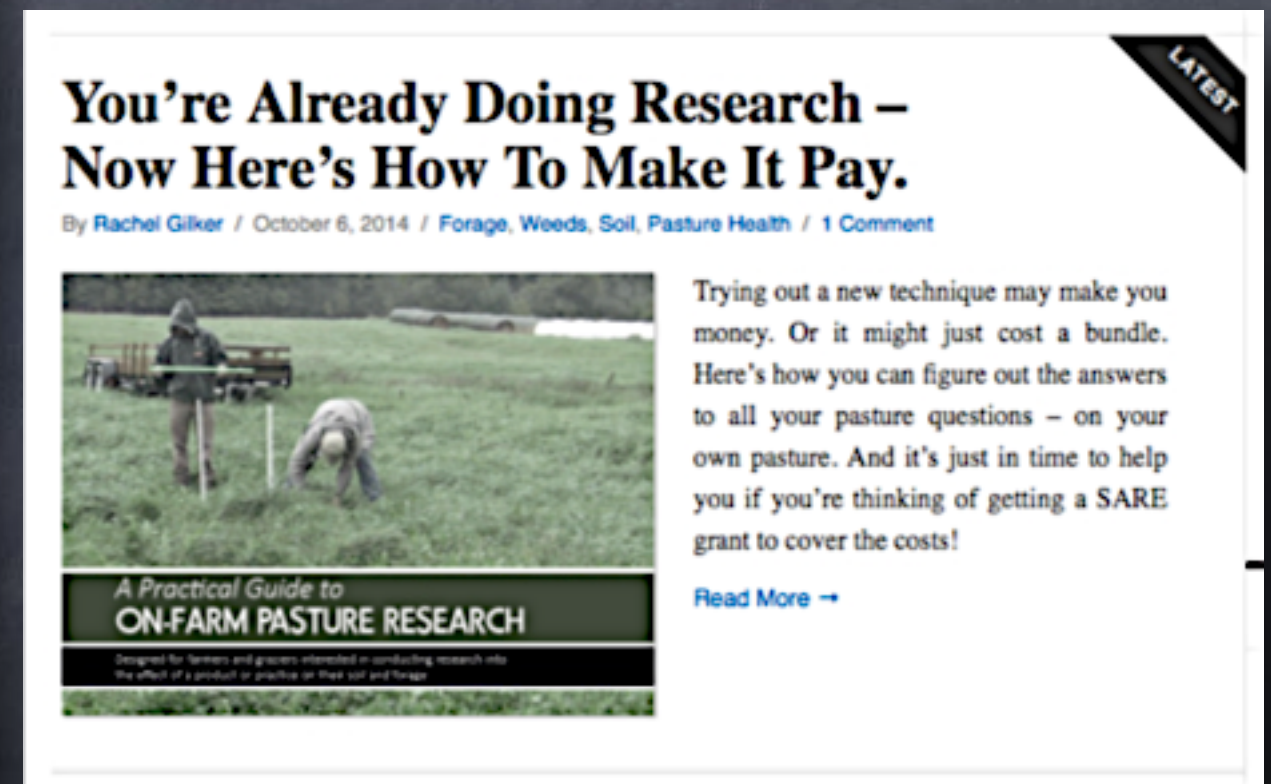
**Farmers constantly experiment.
We try new products, new methods,
new management styles, all within
the domain of an ever-changing
mother nature.**

Mas Masumoto

Epitaph for a Peach:

Four seasons on my family farm



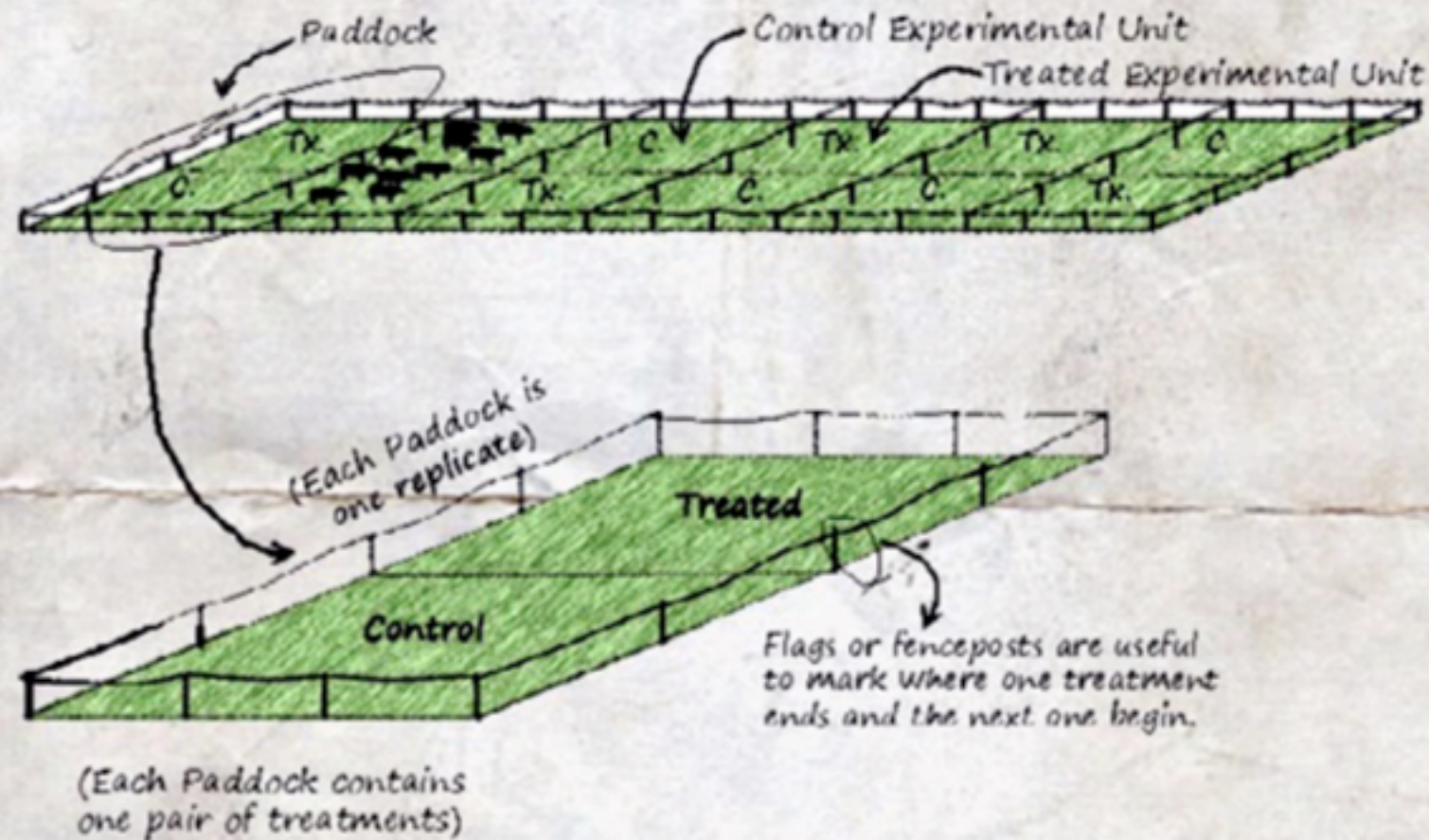


<http://tinyurl.com/OnFarmResearch>

- 1. What do you want to know?**
- 2. What practices will you test?**
- 3. Where will you do the test?**
- 4. What will you measure and how?**
- 5. How will you analyze the data?**

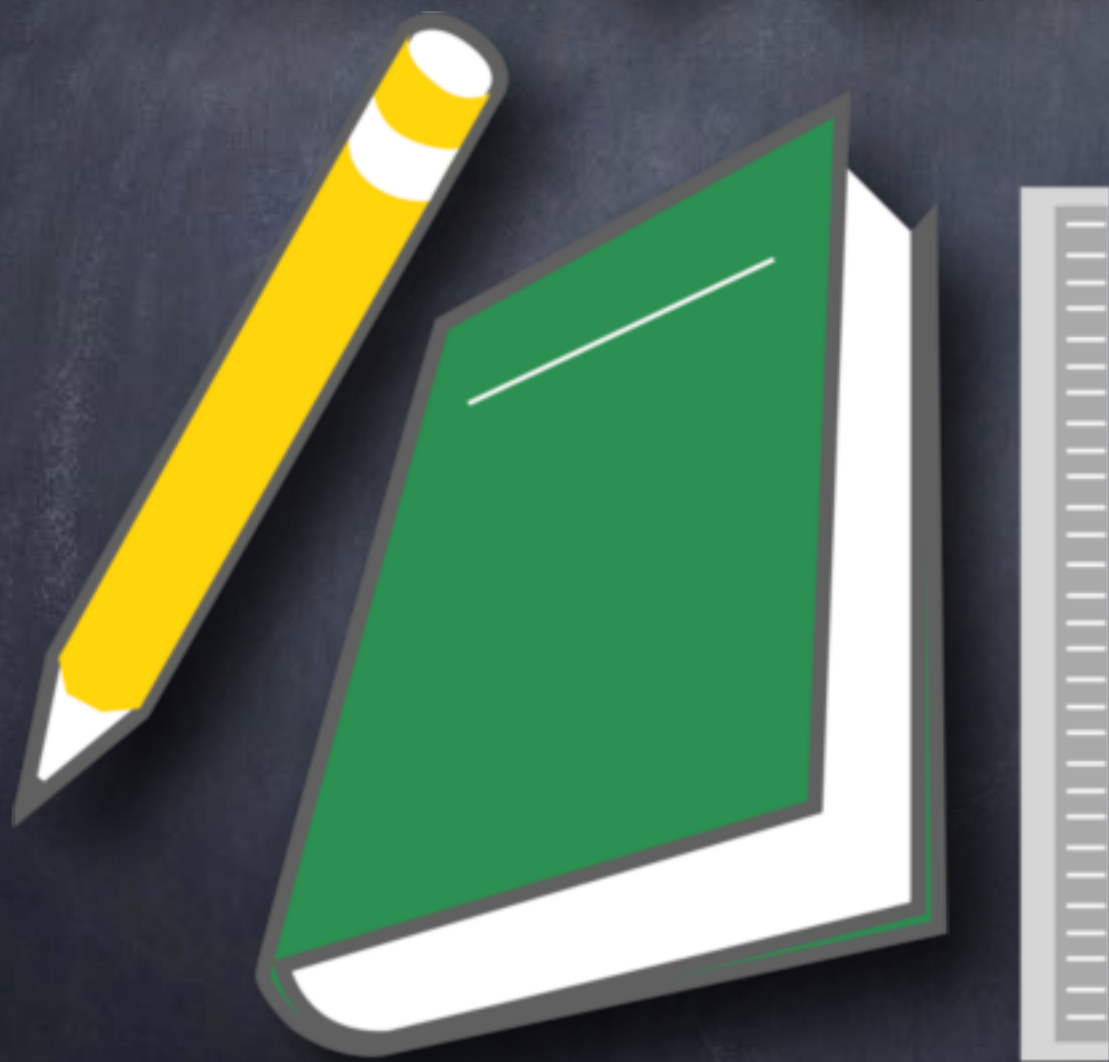
Sample Paired Designed for Farm with Permanent Paddocks

(Notice the treatments within the experimental units are **randomized**, not just alternated)



★ ★ Be sure to record where you applied the treatment, and what side of the paddock is the control! The best way is to make a detailed map. ★ ★

Keep good records.





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